WE SENSE DISASTER...
AND NOW YOU ARE IN CONTROL...

Thermocouple sensor

The Thermocouple sensor is designed for measuring temperatures in dangerous or harsh environments in heavy industries such as petrochemical and metal processing. Other uses for this AKCP Thermocouple sensor apart from manufacturing and industrial purposes include the cryogenics field, superconductor research & development, semiconductor development and scientific research.

The AKCP Thermocouple is TCP/IP enabled and allows temperature monitoring over a TCP/IP network or the Internet. The AKCP Thermocouple sensor plugs into any existing sensorProbe8Linux or cameraProbe8 products via a standard RJ-45 connector and can be easily configured via the web-based interface to monitor and to set alerts based on user-defined thresholds.

The new AKCP type K Thermocouple sensor has the ability to measure temperatures from -270 Celsius (-454 Fahrenheit) to 1372 Celsius (2501 Fahrenheit). The AKCP Thermocouple sensor which is 0.61m by 4.5mm (sheath diameter) features a response time of 0.5 seconds and is fully compatible with any of the sensorProbe8Linux and cameraProbe8 product lines.

Specially designed CAT5 cable assures a correct reading up to 100 feet, and is available in standard length of 1 foot, 15 feet, 60 feet and 100 feet, allowing the sensors to be positioned in hot spots. This Thermocouple sensor can be extended beyond its standard length and in some cases it can extended up to 100 feet.

When the Thermocouple sensor is plugged into the RJ-45 port, the sensorProbe will auto detect the sensor. A built-in graph option is included on all sensorProbes for graphing temperature variations over a period of time.

The Thermocouple sensor has its own SNMP OID so that the data can be collected over network and graphed using external applications like MRTG.

The Thermocouple sensor can read using the included SNMP utilities to allow graphing and data logging at 0.5 C resolution and has a respond time of 0.5 seconds.

Specifications

- Measurement rate: one reading every second.
- Measurement range Celsius: -270°C to +1372°C
- Measurement resolution Celsius: 1°C
- Measurement range Fahrenheit: -454°F to 2501°F
- Measurement resolution Fahrenheit: 1°F increments
- Themocouple type: K
- Dimensions: 0.61m x 4.5mm (sheath diameter)

Features

- Comes with a 5 foot CAT5 cable. User can use a customized cable up to 100 feet
- RJ-45 connection for easy and simple installation
- Full autosense including disconnect alarm
- Power source: powered by the sensorProbe. No additional power needed.